Cracklin' Static

September 2021 Edition

SIERRA NEVADA Amateur Radio Society

1968 50th Anniversary 2018

RENO SWAP MEET!

Instead of a Zoom meeting!

See pg 4….

SNARS NET on DMR – Tuesday 8pm
DMR Talk Group: 31328 SNARS

SNARS Treasury Closing Balances
As of 8-29-21

Account	
Operating	$10,816
Savings	$11,883
Self Insurance	$12,039
PayPal	$2,048
Convention	$4,212
Total	$40,999
Net Monthly	$1,665
Net YTD	$6,426

SNARS Membership as of 8-29-21

Extra	162	36%
General	151	34%
Technician	118	26%
Advanced	16	4%
No License	0	0%
License Expired	2	0%
Total	**449**	

SNARS ARRL Members

Regular	226	50%
Life	40	9%

PRESIDENT'S VOICE

President John Byerly, N7ROJ

Email: mtnlion@gmail.com

Hello everyone!

Several exciting things coming up over the next few weeks.

Saturday, September 4th we have the SNARS Swapmeet in the Cabela's parking lot. We will also have a socially distanced outdoor in-person meeting. We still need volunteers to assist with this.

Saturday the 11th, Chameleon Antenna will be having an outdoor open house where you can see, and test out their antenna products. SNARS will have a tent there and due to the lack of facilities for the public, SNARS is providing an outdoor restroom for members to use if needed. Also, Ham and HiFi will be having tables set up so you can look at and get things you never knew you needed! (Happens to me every time I go there) Shhh! Don't tell my XYL. Here we could also use some volunteer help! **(See page 9 for more details!…….Ed.)**

Also, the third weekend in October is Scouting's Jamboree on the Air. Barry K6ST will be posting information on how you can help this important event for youth and amateur radio involvement.

The SNARS link system repeater replacement program has started and we are waiting for the global supply chain to provide our first repeaters for the very needed upgrades to our link system. Stay tuned for an information/donation page to be available on the SNARS website.

Tony W7XM is working hard on the members website. Google who hosts it made a change and caused a snag, but he is working to get it restored to full functionality ASAP.

We are still hunting for a place to do in-person meetings. We are trying now to think out of the box. It seems that COVID has really made this difficult, and this new variant could make it even worse. Our Zoom meetings are great, and Barry and the team are working hard to make it as much like an in-person event as possible. The day may come when we can go back to breakfast and a meeting, but frankly, I'm not holding my breath. We may be forced to switch to one of several options ranging from a non-food meeting, outdoors, or even a lunch or afternoon meeting. Now, I know many of us don't like change, but it's the world we live in. We must adapt.

Please everyone, stay healthy, happy, and get on the air!

73 John N7ROJ

1968 50th Anniversary 2018

SIERRA NEVADA Amateur Radio Society

PO BOX 7727 Reno NV 89510
Yearly Dues: $40.00 Individual ● $50.00 Family
775.453.4142 http://snars.org

2020 Officers

President.....John Byerly, N7ROJ
Vice-President.....John Miller N7JDM
Treasurer.....Bill Jones, AE7OX
Secretary.....Anthony Marcin, W7XM
Director .....Wes Vick, KG7QXE
Director .....Jim Shepherd, W6US
Director .....Barry Bettman, K6ST

2020 Staff

Cracklin Static .....Howie Holden, WB2AWQ
W7TA Trustee .....Peter DeBay, KE7VSR
KR7ENO Trustee.....Howie Holden, WB2AWQ
Control Operator .....Pat Sheehan, W7DED
Youth Involvement.....Barry Bettman K6ST
NVQSO Coordinator.....Jim Shepherd, W6US
Historian .....Jon Fox, KF7KTC
Tech Team Lead .....Pat Sheehan, W7DED
Membership .....Kim Farnham, KG7TMA
PIO .....Greg Krantz, NT7Q
VE Coordinator.....Krystal Rhoades, AJ6GC
Meeting Greeter .....Bill Jones, AE7OX
Noon Net Manager .....Wes Vick, KG7QXE
DMR Net Manager .....Anthony Marcin, W7XM
Reno Ham Swap .....Vacant
Webmaster .....Erik Andreasen, K6CZH
Club Sales Manager.....Julie Dodge, N7JWL
Recording Secretary.....Doug Edmondo, W7DBE

Cracklin Static Publication

Editor: Howie Holden **WB2AWQ** - holden7471@msn.com

Cracklin' Static is the Newsletter of, and sponsored by the Sierra Nevada Amateur Radio Society. Published the week before meetings. Opinions expressed herein are those of the editors and contributors and should not be considered as official expressions of the Club Officers, Staff or Club Members, or as endorsements by same.

Material for publication may be edited to enhance readability or to save space. We reserve the right to use whatever font size, line spacing or other tools as may be required to publish this Newsletter. **Deadline for input to the newsletter is 1500 hours on the Sunday** prior to the 1st Saturday of each month.

SNARS Wide Area Linked System

147.030 + Pl 123.0	Sparks, Fernley, Fallon	
147.210 + PL 100.0	Reno, Sparks	
147.150 + PL 123.0	Lake Tahoe, Truckee, Carson	
146.925 –PL 123.0	Lovelock, Fallon	
146.670 –PL 123.0	Winnemucca	
444.875 + PL 100.0	Yerington	
444.125 + PL 123.0	Reno Sparks	

DMR Systems

444.925 + CC 1	Reno, Sparks	
444.825 + CC 1	Dayton, Fallon, Carson	
443.925 + CC 1	Lake Tahoe, Truckee, Carson	
443.950 + CC 1	Incline Village	
442.875 + CC 1	Sparks, Fernley, Fallon	
442.850 + CC 1	Downtown Reno	
441.950 + CC 1	Fallon, Fernley	

Fusion Systems

146.610 – PL 123.0	Reno, Carson, Dayton	

IRLP / EchoLink Systems

147.300 + PL 123.0	Reno, Sparks	

Packet / APRS

145.050 - RNO	Reno, Carson, Dayton	
145.050 - ROSE	Lake Tahoe, Truckee. Carson	
144.390 - TOULON	Lovelock, Fallon	

Standalone Systems

147.390 + PL 100.0	Reno, Carson, Dayton	
443.075 + PL 123.0	Reno, Carson, Dayton	
927.0875 + PL 114.8	Reno, Carson, Dayton	

Online Offline Not Linked

Noon Net
Sierra Nevada Amateur Radio Society

Weekday on the SNARS Linked System

147.030 + PL 123 – Sparks/Fernley
147.150 + PL123.0 – Lake Tahoe / Truckee
147.210 + PL 100.0 - Reno
444.875 + PL 100.0 - Yerington
146.925 - 123.0 – Lovelock / Fallon
146.67 – PL 123.0 - Winnemucca

Monday through Friday @ 12:00pm

Open to all amateur radio operators. A general informational net for the amateur radio community of Northern Nevada and Eastern California. Radio Checks and Questions are welcomed.

Nets on the SNARS Linked Systems

147.210 + 100.0 | 147.030 + 123.0 | 147.150 + 123.0
147.670 – 123.0 | 146.925 – 123.0 | 444.875 + 100.0

ERC Net for NV and Northern CA	Monday @ 9:15pm
N. Western NV ARES Net	Thursday at 7:30pm
Northern Nevada Preppers Net	Wednesday @ 8:00PM
Hospital Net	Friday @ 10:00AM

Nets on IRLP (GSR) System

Repeater: 147.300 + 123.0

Amateur Radio Newsline	Monday - 8:00PM
Nevada Skywarn Net	Wednesday - 7:00pm
Nevada State ARES Net	Thursday - 7:00PM

Nets on Simplex/HF

Jefferson Noon Net	7.204 LSB	Daily - 12:00pm
6 Meter Net	50.350 USB	Tuesday – 8:00pm
2 Meter Weak Signal	144.250 USB	Wednesday - 8:00PM
2 Meter Simplex Net	146.500 FM	Thursday – 8:00PM
10 Meter Net	28.350 USB	Sunday – 2:00PM

DMR
DIGITAL MOBILE RADIO

SNARS Weekly DMR Net – Tuesdays 8:00PM

SNARS Talk Group 31328

Open to Members and Guests. A general information net each week on DMR.

SNARS CALENDAR

SNARS RENO SWAP MEET, Saturday, September 4, Cabela's northeast parking lot. See page 4 for details!!!

SNARS Board Meeting Wednesday, September 8, 6:00PM Location and mode Chin Chin, Sparks, and Zoom

CHAMELEON ANTENNA OUTDOOR ANTENNA DEMO September 11, 155 Glenview Ave, Sparks, suite 17B, 9AM-noon. See page 4 for details!!!

QCWA meeting September 11, 11AM—noon
Famous Dave's Bar-B-Que, 4925 Kietzke Ln, Reno

HAM RADIO NIGHT on Zoom 7:00 PM September 20, see https://snars.org/hamradionight/

Next months SNARS Breakfast Meeting - October 2, ***Location and media mode tentative depending on Board decision and local restrictions.***

WELCOME NEW MEMBERS

AS OF AUGUST 29

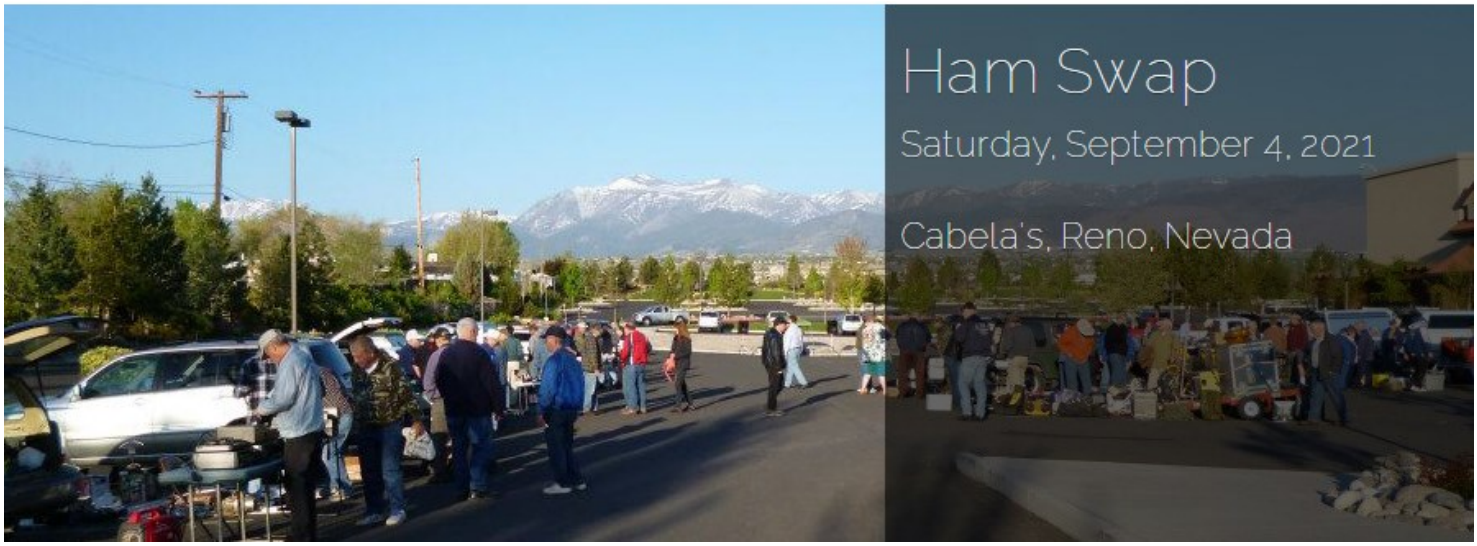
John	Wilkinson	KJ7ZVM
Terry	Fowler	KK7AKN
Gary	Carman	KK7AKS
Arthur	Temple	KK7AEL
Daniel	Gugich	KK7AGH
Greg	Hutchings	K9DEM
Larry	Ragland	W7LRR

RENO Ham Swap

Sponsored by SIERRA NEVADA Amateur Radio Society

Affiliated Event

HOME | PLANNED ITEMS | SWAP SPACE REGISTRATION | MEDIA



Summer Ham Swap
at Cabelas, Reno, Nevada
8650 Boomtown Garson Rd. Verdi, NV (RENO)
Saturday, September 4, 2021

Talk-In Repeater: 147.210 + PL 100.0

DMR: Talk Group: SNARS (31328)

Click on the links above the photos for all the details—directions, times, registering a space, what's going to be there, media info, etc!

NOTE: THERE WILL BE NO REGULAR SNARS ZOOM MEETING!

THE NAME OF THE GAME

Jim Shepherd, W6US nvjims@gmail.com

APRS

Automatic Packet Reporting System is a powerful system that goes far beyond the simple tracking of the locations of transmitting beacons. If you look on websites like **https://aprs.fi** or **www.findu.com** you will see the locations of weather stations, digipeaters, internet gateways, home stations, and vehicles out running around. There are a bunch of symbols on the map, and some straight lines connecting some of them. It all looks a little confusing and we haven't even talked about hooking a radio into this system yet.

If you tune your radio to 144.390, you may hear packets, and these are carrying some of the information that you are seeing on the aprs.fi screen. Unfortunately, the APRS activity has decreased in the last few years in this area. There used to be a number of digipeaters around the area that provided more coverage and a lot more mobiles out there laying down tracks on the roads.

Bob Bruninga, WB4APR, developed this system back in the mid '80s, and it has gone through some major development since then. Basically, the system "was designed to support rapid, reliable exchange of information for local, tactical real-time information, events or nets". With the advent of affordable GPS units in the early '90s, real-time location data could be exchanged and displayed on maps. APRS-IS was developed which allowed a gateway to the internet and allowed for sites like aprs.fi and findu.com to show the locations worldwide. In fact, first time visitors to aprs.fi will see a map of southern Finland and will need to type 'Reno, NV' to see the local activity.

Beyond the tracking of vehicles, there is a wide variety of information that can be passed using APRS. Short text messages can be sent to specific other stations on the net, not only locally, but around the world. Stations can send the frequencies of Voice repeaters that they are monitoring, and this also applies to the digipeaters which can display local, active repeater frequencies like our SNARS system. For our public service events like bicycle races, bib numbers can be sent by the hams at the checkpoint as they pass through so all locations can track the riders. Local ARES is using APRS on another frequency to coordinate its WinLink system. Outside of the ham bands, the AIS Marine tracking system keeps track of most large ships and it can be displayed on the aprs.fi site as well as at **https://www.marinetraffic.com/en/ais/home/centerx:-21.3/centery:31.2/zoom:2**

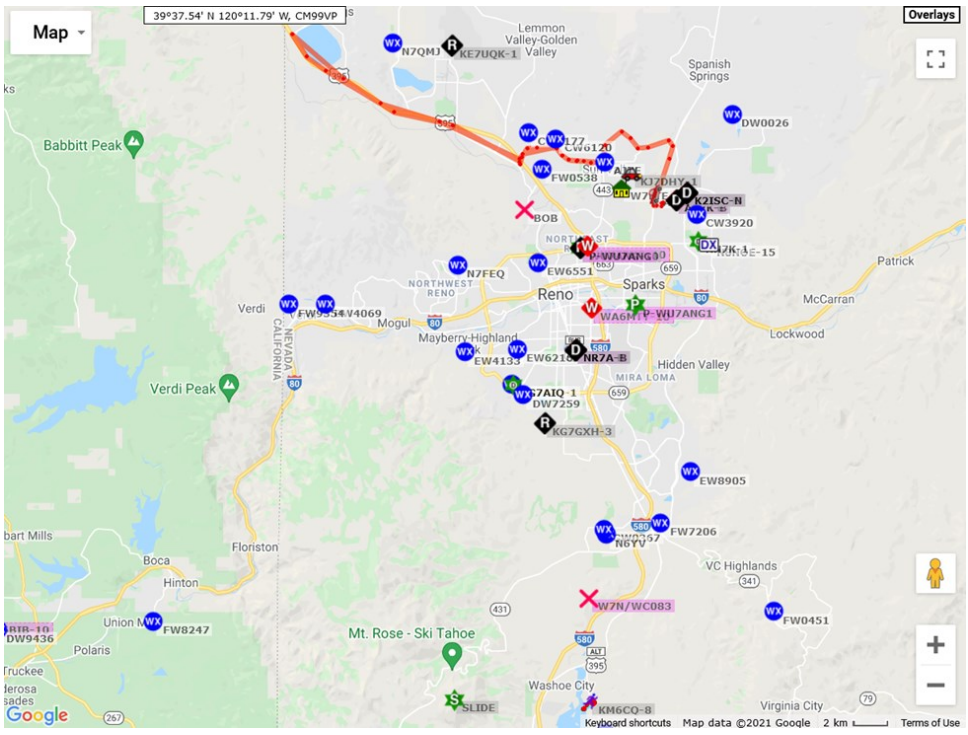
There are a number of radios that have APRS capability built into them. Some also have a GPS, and there are ones that are just transmitters that will beacon your location. There is a pretty good rundown of available ones at https://wcares.org/special-interests-3/aprs/aprs-what-are-my-options/ Besides these ready made ones, you can always add a TNC, GPS and a computer interface to virtually any FM radio. If you are already set up to do packet radio, you can get on APRS with the appropriate software.

There is a lot of different software out there. Some are designed to work with a TNC while others like DireWolf use the computer's sound card to do the work. A good list of the various software can be found at https://www.dxzone.com/catalog/Software/APRS/ and they will work on various platforms such as Windows, Linux, Android, and Apple IOS. TNCs may show up at ham swap meets, including our SNARS one this weekend.

Good radios for doing APRS and Packet are virtually every 2 meter FM radio. Some models have commercially made cables to attach to the radio and the TNC, others may require you to make up a cable or even open up the radio and attach wires to the proper points in the circuits… There is a need to properly set up deviation, emphasis and de-emphasis, and isolation in order for the best results. Deviation is especially important as it must be between 3 and 4 KHz to be properly decoded at the other end…. Low deviation like that heard on most of our voice nets is not tolerated on packet systems. Overdriving causes clipping which also results in rejected packets.

There is also some activity on the DMR systems, and there are a couple of digital gateways in the area. Some of the DMR radios have built in systems, but some of it seems to be propriety to the equipment. This would be a good topic for the DMR Tech net on Tuesday nights…

APRS and Packet are good additions to your hamshack. Besides the local information, you can track high elevation balloon and rocket launches which often have ham radio payloads. Most vehicles have different icons on the map—you will see cars, Jeeps, trucks, bicycles, boats, airplanes, and other vehicles as well as houses for fixed locations, and WX for weather stations. Just click on the icons to learn more about them and see a list of who they are in contact with. The straight lines will indicate what digipeaters and Igates they are using. There is a lot of information out there, just Google 'APRS' and you will have thousands of articles to read. Have Fun!!!



MIKE'S MISSIVES CHAPTER FIFTY NINE

Mike Katz, N7MSK

FCC PART 97 excerpts:

§97.17 Application for new license grant.

(a) Any qualified person is eligible to apply for a new operator/primary station, club station or military recreation station license grant. No new license grant will be issued for a Novice or Advanced Class operator/primary station.

(b) Each application for a new amateur service license grant must be filed with the FCC as follows:

(1) Each candidate for an amateur radio operator license which requires the applicant to pass one or more examination elements must present the administering VEs with all information required by the rules prior to the examination. The VEs may collect all necessary information in any manner of their choosing, including creating their own forms.

(2) For a new club or military recreation station license grant, each applicant must present all information required by the rules to an amateur radio organization having tax-exempt status under section 501(c)(3) of the Internal Revenue Code of 1986 that provides voluntary, uncompensated and unreimbursed services in providing club and military recreation station call signs ("Club Station Call Sign Administrator") who must submit the information to the FCC in an electronic batch file. The Club Station Call Sign Administrator may collect the information required by these rules in any manner of their choosing, including creating their own forms. The Club Station Call Sign Administrator must retain the applicants information for at least 15 months and make it available to the FCC upon request. The FCC will issue public announcements listing the qualified organizations that have completed a pilot autogrant batch filing project and are authorized to serve as a Club Station Call Sign Administrator.

(c) No person shall obtain or attempt to obtain, or assist another person to obtain or attempt to obtain, an amateur service license grant by fraudulent means.

(d) One unique call sign will be shown on the license grant of each new primary, club and military recreation station. The call sign will be selected by the sequential call sign system. Effective February 14, 2011, no club station license grants will be issued to a licensee who is shown as the license trustee on an existing club station license grant.

[63 FR 68978, Dec. 14, 1998, as amended at 64 FR 53242, Oct. 1, 1999; 65 FR 6549, Feb. 10, 2000; 75 FR 78170, Dec. 15, 2010]

SHORT TAKES (By Jim Shepherd W6US)

Contest Calendar

The State QSO Party season continues on in September with 9 different states having their party during the month. Colorado, Tennessee, Alabama, Texas, Iowa, New Hampshire, New Jersey, Washington and Maine are all holding their parties on weekends this month. Full information is at https://www.contestcalendar.com/stateparties.html Washington's Salmon Run is giving away smoked salmon packages to various winners. In addition to the State contests, the ARRL September VHF contest will be on September 13th –14th and all hams can participate. The first major contest of the fall season is the CQ WW RTTY contest starting at 5pm local on September 25 and running for 48 hours. There are other contests at:

https://www.contestcalendar.com/contestcal.html

DX

There are some operations starting to pick up. International travel is still impacted, so announced expeditions are very few, however there are some good ones showing up on the list this month. Dodecanese, Rwanda, Faroe Island, Tanzania, and St.Pierre/Miquelon are some of the better ones. The RTTY contest will bring out a lot of countries on this digital mode. More information can be found at:

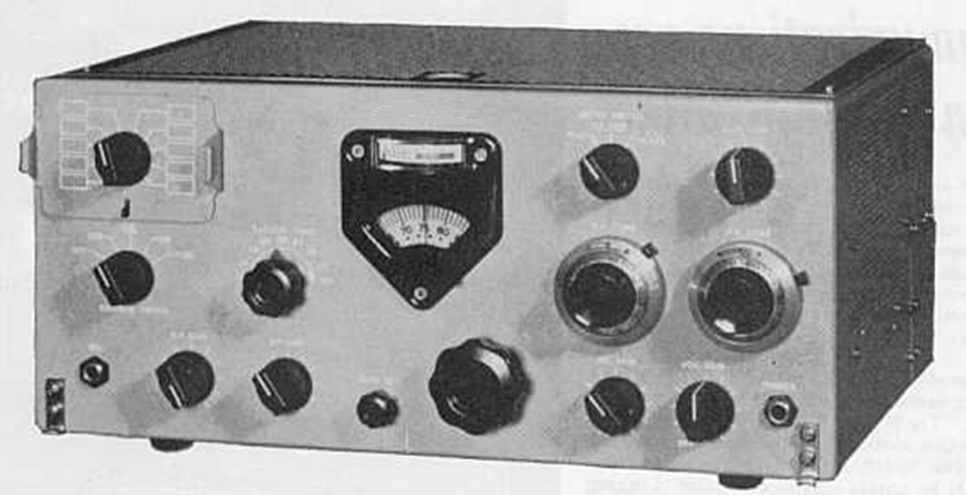
https://www.ng3k.com/Misc/adxo.html

Third Monday ZOOM Ham Radio Night

We will see our popular Ham Radio Nights via ZOOM to get your questions answered. It will be held at 7pm on Monday, September 20th. I will be in one of the rooms talking about contesting. More information, including the link will be published before that date.

NAME THAT RIG?

(Answer on page 10)



YOUTH INVOLVEMENT

JAMBOREE ON THE AIR (SCOUTING)
OCTOBER 15 - 17, 2021

Jamboree-on-the-Air (JOTA) provides the opportunity for millions of Scouts around the world to meet on the air via Amateur Radio.

Get ready for the 2021 on-the-air event!

What is JOTA?

When Scouts want to meet young people from another country, they usually think of attending a World Jamboree. But few people realize that each year more than a million Scouts and Guides "get together" over the airwaves for the annual **Jamboree-on-the-Air** (JOTA). During the 2014 event, worldwide Scouting participation included 1.1 million Boy Scouts and 200,000 Girl Guides/Gils Scouts, for a total participation of over 1.3 million--the largest Scouting event in the world.

The Sierra Nevada Amateur Radio Society has had conversations with local Reno scouts leaders to plan for the opportunity for Jamboree-on-the-Air-activities.

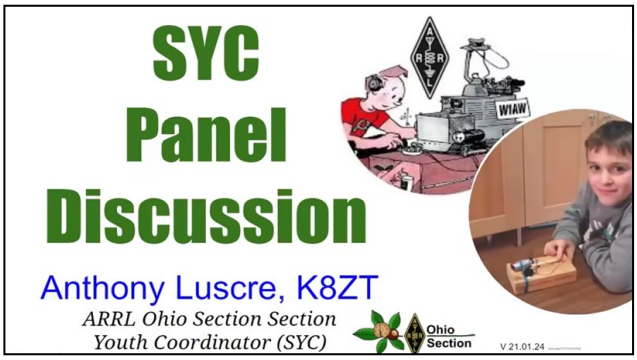
Once a JOTA venue and details become available, we will be sharing invitations with SNARS on ways to help out, probably on Saturday Oct 16th.

Modern technology offers Scouts the exciting opportunity to make friends in other countries without leaving home. JOTA is an annual event in which Boy and Girl Scouts and Guides from all over the world speak to each other by means of Amateur (ham) Radio. Scouting experiences are exchanged and ideas are shared via radio waves. Since 1958 when the first Jamboree-on-the-Air was held, millions of Scouts have met each other through this event. Many contacts made during JOTA have resulted in pen pals and links between Scout troops that have lasted many years. With no restrictions on age or on the number of participants, and at little or no expense, JOTA allows Scouts to contact each other by ham radio. The radio stations are operated by licensed amateur radio operators. Many Scouts and leaders hold licenses and have their own stations, but the majority participate in JOTA through stations operated by local radio clubs and individual radio amateurs. Some operators use television or computer-linked communications.

When does JOTA happen?-
Jamboree-on-the-Air is held the third weekend in October. A change in policy from previous years, there is no set time for the start or end. Since it isn't a contest, there's no designating starting point. When your station is ready to go, get on the air and make contacts. You'll have the whole weekend!

http://www.arrl.org/jamboree-on-the-air-jota

Any questions about JOTA or youth Involvement, contact Barry K6ST - **k6st@arrl.net**
Nevada Section Youth Coordinator



ARRL SYC Panel Discussion was held on Wednesday August 18th, 2021with the following Panel Speakers/Presenters:
Anthony Luscre, K8ZT
Eric Berman, KC3GDV
Barry Bettman, K6ST
Martha Muir, W4MSA

These ARRL Section Youth Coordinators shared views and perspectives about supporting youth in the ham radio hobby.

(Continued on next page…..)

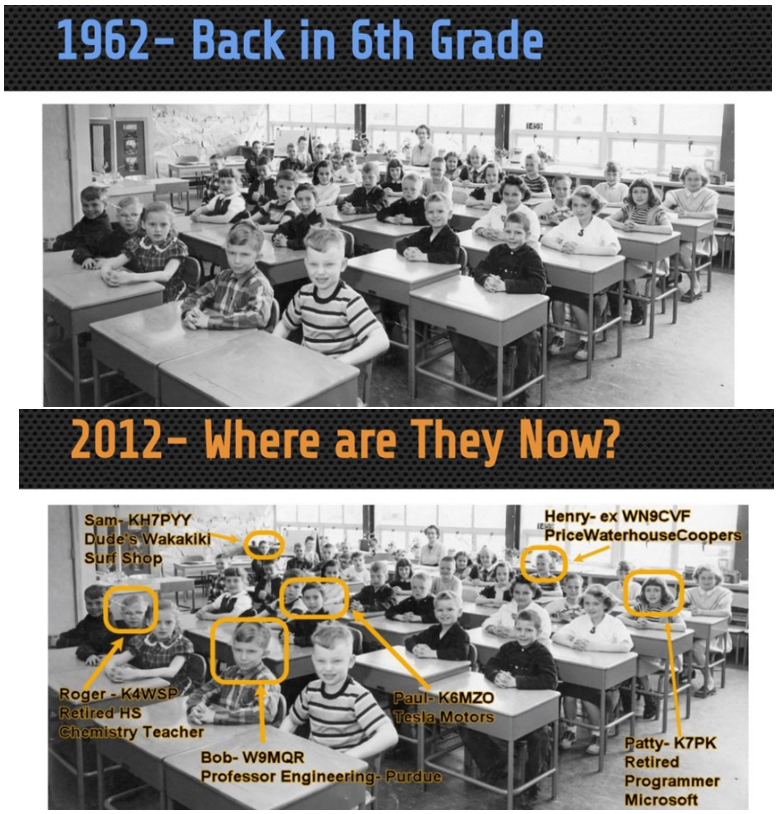
Continued from preceding page.....

Please complete the survey: **HERE**

OR Feel free to watch the video: **https://vimeo.com/589189389**

Or View the slide deck: **HERE**

Here's the influence of ham radio on youth:



Join our SEC-ARES group for announcements and discussions https://groups.io/g/SEC-ARES
Join our NewHams group for same announcements, different discussions https://groups.io/g/NewHams
Join our RATPAC group for same announcement, less discussion https://groups.io/g/RATPAC
Please be sure to include your name and call sign when registering

Thanks to our host:

Dan Marler, K7REX
ratpac.plan@gmail.com

Radio Amateur Training Planning and Activities Committee (RATPAC). We host nationwide Amateur Radio Zoom presentations twice-a-week, Wednesdays on general radio topics and Thursdays on amateur radio emergency communications. The topics are selected from audience recommendations that the planning committee then seeks topic experts or discussion panel members. The presentation audience consists of thousands of amateur radio operators worldwide who participate directly in the Zoom sessions or with video links of the presentation and related documentation sent out after each session.

73, Barry K6ST
Nevada Section Youth Coordinator
ARRL (American Radio Relay League) www.arrl.org
The national association for amateur radio

HAM RADIO NIGHT

3rd Monday of each month at 7PM PT on Zoom
Join together and Elmer each other for Ham Radio Night on Sept 20th, 2021

The topic smaller breakout groups will be:

FT8 Digital
Analog VHF/UHF
DMR/Fusion
NVQSO Party
Each participant can move themselves around to different breakout topics in zoom conferencing to enjoy.

If you have any questions or would like to be of service as an Elmer,
please contact K6ST Barry k6st@arrl.net

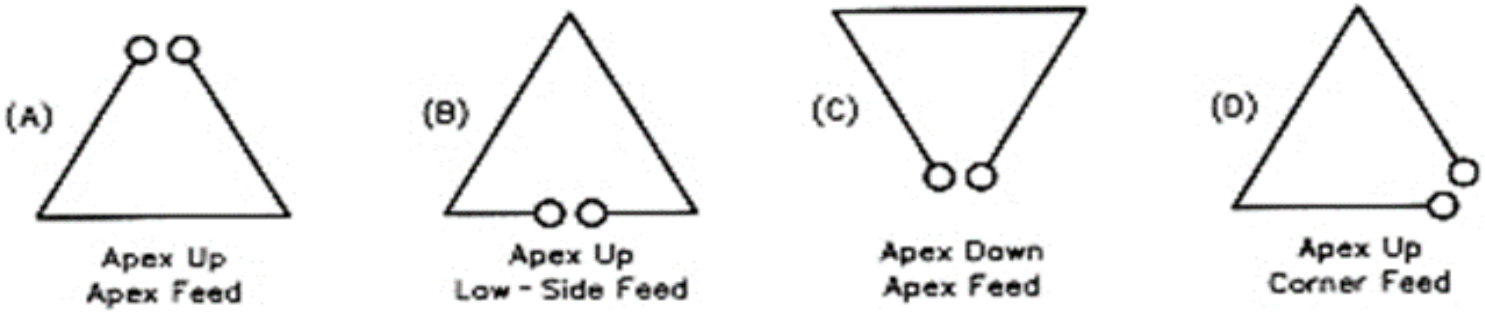
Feel free to register below for our next Ham Radio Tech Night, SNARS (virtual on Zoom conferencing) September 20, 2021 7:00PM PDT

https://us06web.zoom.us/meeting/register/tZMocO-qrTIrGtUWT-ecpO5KsyFZ8BGQAH4Q

W7SSB's FUN STUFF

THE DELTA LOOP is not only a great transmitting antenna but **a low noise receiving antenna**. The direction of fire is broadside to the antenna. This means that if the base wire of the antenna goes from north to south, the direction of gain will be east and west.
https://www.youtube.com/watch?v=_zY-Wl4rRlw https://www.youtube.com/watch?v=rGUmJeGFS0Y
Delta Loops are easy to build and low cost. You will be pleasantly surprised with the results you can achieve with this simple antenna. If you don't want to make one there are several commercial companies who make and sell them.
https://chameleonantenna.com/shop-here/ols/products/cha-tdl
http://www.hypowerantenna.com/products/delta-loop-antenna
https://www.amateurradiosupplies.com/delta-loop-antenna-s/104.htm

Whether building or buying one they are easy to erect and feed. Have fun !



	Polarization	Radiation Angle
A	Horizontal	Moderately High
B	Horizontal	High
C	Horizontal	Moderately High
D	Vertical	Low

Feed Impedance ≈ 100 Ω

NITINOL - You probably never heard of this very interesting product. Nitinol is a **nickel-titanium alloy** distinguished from other materials by its shape memory and superelastic characteristics. Nitinol is a trade name taken from the elements it's composed of—nickel (Ni) and titanium (Ti)—and the scientific group that discovered it—the Naval Ordnance Laboratory (NOL). Believe or not it is the material that teeth braces are made of. Most applications are for the medical marketplace. BUT several companies are using it for hf and vhf / uhf antennas.
The material has about the same conductivity as aluminum, stainless steel and titanium . This one tough product ! It is used for antennas at the space station and on satellites. It can be formed as tubes, rods, flat stock etc. It is not cheap and hard to work with. Why does nitinol remember its shape?When a shape memory alloy **is in its martensitic form, it is easily deformed to a new shape**. However, when the alloy is heated through its transformation temperatures, it reverts to austenite and recovers its previous shape with great force. This process is known as shape memory.
https://www.youtube.com/watch?v=wI-qAxKJoSU
The reason I bring this up is that I'm (Chameleon Antenna) experimenting with it for HF portable antennas for amateur use. As I mentioned before it is expensive , a 44" length x 3cm cost me almost $90.

Stay tuned ! Don W7SSB

CQ CQ CQ ALL SNARS CLUB MEMBERS DE THE CHAMELEON ANTENNA TEAM!

CHAMELEON ANTENNA has just moved into our much larger manufacturing / warehousing facility. To celebrate this we are going to have an outdoor demonstration of our antennas with operating stations. You will have the ability to use them on the air. We will have discounts on new antennas and a prize drawing.

SNARS will have a booth with coffee and club information. A chance to meet and greet new and old members alike.

HAM and HIfi will have tables full of gear! Come and find things you don't need! It will give us a chance to get out of the house and see old friends!

This will happen at **Saturday September 11, at 155 Glendale Ave. Suite 17B, Sparks. 9 - 12 AM.**
If you have any questions, please contact me. This is not a swap meet!
Just a chance to have some fun!

73, Don W7SSB donssherman@gmail.com

FUN STUFF FOR SEPTEMBER

September has NINE—count 'em— state QSO parties (5 in one weekend!) Not to mention some ARRL/NCJWeb events which are in BOLD, and one of the CQ events. Have fun! Check 'em out at: www.arrl.org/files/file/Contest%20Corral/2021/September%202021%20Corral.pdf

4 Sep 0000 to 5 Sep 2359 3.5-28 All Asian DX Contest, Phone www.jarl.org/English

4 Sep 1300 to 5 Sep 0400 All Colorado QSO Party CW Ph Dig www.ppraa.org/coqp

5 Sep 1800 toi 6 Sep 0300 All Tennessee QSO Party CW Ph Dig www.tnqp.org/rules

11 Sep 1500 to 12 Sep 0300 3.5-28 Alabama QSO Party CW Ph www.alabamaqsoparty.org/

11 Sep 1800 to 13 Sep 0300 50 and up ARRL September VHF Contest CW Ph Dig www.arrl.org/september-vhf

12 Sep 0000 to 12 Sep 0400 3.5-14 North American Sprint, CW www.ncjweb.com

18 Sep 0600 to 19 Sep 2359 10 GHz to light ARRL 10 GHz and Up Contest CW Ph Dig www.arrl.org/10-ghz-up

18 Sep 1400 to 19 Sep 0200 All Iowa QSO Party CW Ph Dig www.w0yl.com/IAQP

18 Sep 1400 to 19 Sep 2000 All Texas QSO Party CW Ph Dig www.txqp.net

18 Sep 1600 to 19 Sep 0359 3.5-28 New Jersey QSO Party CW Ph Dig www.k2td-bcrc.org/njqp/

18 Sep 1600 to 19 Sep 2200 All New Hampshire QSO Party CW Dig Ph www.w1wqm.org/nhqso

18 Sep 1600 to 19 Sep 2359 1.8-144 Washington State Salmon Run CW Ph Dig www.salmonrun.wwdxc.org

19 Sep 0000 to 19 Sep 0400 3.5-14 North American Sprint, RTTY Dig www.ncjweb.com

25 Sep 0000 to 26 Sep 2359 3.5-28 CQ Worldwide DX Contest, RTTY Dig www.cqwwrtty.com

25 Sep 1200 to 26 Sep 1200 1.8-28 Maine QSO Party CW Ph www.ws1sm.com/MEQP.html

If you're not into contests, there's always DX to chase! The list is slowly but steadily growing as more people can travel, so check back often. I've listed the more interesting ones here.

Sep 05	to Sep 28	**Liechtenstein**	**HB0**
Sep 10	to Sep 13	**Kosovo**	**Z68XX**
Sep 13	to Sep 28	**Rwanda**	**9X2AW**
Sep 17	to Sep 20	**Faroe Is**	**OY**
Sep 17	to Sep 29	**Tanzania**	**5H1IP**
Sep 29	to Oct 13	**Maldives**	**8Q7CQ**

Check https://www.ng3k.com/Misc/adxo.html for updates on DXpeditions to make sure they're still a go!

RENO QRP SLOW SPEED CW NET

NEXT NET SESSION WILL BE September 1st at 10AM PDT. Target frequency 7.045 MHz, if busy search somewhere near that frequency.

THE FOLLOWING SHOULD ALWAYS BE IN YOUR REPORT
NAME ,RST, LOCATION, RIG, POWER, ANTENNA.
REMEMBER TO INCLUDE RST IN YOUR REPORT
Feel free to add something else in your exchange.
Take some time to report RST for other OP's or anything else that comes to mind.
Sharing information about you and your equipment will accomplish two things.

First It gives you and everybody else practice sending and copying.
Second It is nice to spend time on the air with your friends. Consider this a QRP meeting on the air.

Relax and have some airtime fun with your friends.
73/72 Ed/WD7Y

NAME THAT RIG (from page 6)

Despite the unrivaled popularity of **Collins Radio Co's** KWM-2 HF transceiver, probably only a handful of people are familiar with the KWM-2's predecessor, the **KWM-1**. **Collins** came out with the **KWM -1** in 1957. A major user of the **KWM-1** was our own government, mainly for its armed forces. The **KWM-1** was a 100 watt output 20 thru 10 meter SSB and CW transceiver utilizing a separate power supply (516F2 for AC, 516E-1 for DC), 24 tubes, and Collins' famous Permeability Tuned Oscillator, a still-superb super stable tunable oscillator for SSB type use. The build quality of the **KWM-1** was astounding. The **KWM-1** tuned the three amateur bands (no WARC at that time) in 100 Khz segments, plus it had a segment covering WWV on 15 Mhz for calibration and time setting. Among the many uses of the **KWM-1** was for HF capability for the infamous U-2 spy plane (think Francis Gary Powers and Cuba during the cold war in 1960). It was equipped with a crystal oscillator so the pilot didn't have to fool with tuning. The limitations of the **KWM-1** were addressed in the KWM-2, which featured 80 thru 10 meter coverage plus the ability to add other frequency bands for non-amateur use. The KWM-2 and succeeding A and B models were also in wide used throughout the armed forces. Yours truly was stationed in the late 1960s at Navcommsta Greece, where there were three KWM-2s for use in area SSB nets with ships and shore stations. One heck of a transceiver at over 50 years old, and still wildly popular with tube-era collectors and others wishing to show off a top of the line setup. The KWM-1 and –2 command premium prices.

ARES NEWS

EVENTS CALENDAR

EVENT 2021	DATE	DATE END	SPONSOR/ORGANIZER	COORDINATOR	CONTACT
Stetina Paydirt	9/11/21		John Prouty; Bike Monkey	Bob Miller WA6MTY	wa6mty@gbis.com
Tour De Tahoe	9/12/21		Tahoe Amateur Radio Assn	Paul Gulbro, WA6EWV	wa6ewv@juno.com
Reno Air-Races	9/15/21	9/19/21	WC-ARES	Bob Miller WA6MTY	wa6mty@gbis.com
Grinduro SBTS			Plumas ARC	Larry Trotter KI6YUK	dltrotter@sbcglobal.net
Nevada Day Parade	10/30/21		NV AREA NW DEC	John Abrott KD7NHC	jabrott77@gmail.com, cell 775 790-1739.
Sparks Turkey Trot	11/25/21		WC-ARES	Bob Miller WA6MTY	wa6mty@gbis.com

NOTE: Plumas ARC always have a need for operators. Go over to some beautiful country and help out the Plumas Amateur Radio Club

REGISTRATION IS NOW OPEN FOR AN ON-LINE COURSE, "INTRODUCTION TO EMERGENCY COMMUNICATIONS, EC-001". AMERICAN RADIO RELAY LEAGUE (ARRL)

Field Instructors from Washoe County Nevada Amateur Radio Emergency Service (WCARES) will conduct this no-cost class.

This is an approved ARRL Field Course conducted on-line, targeting Radio Amateurs in the **NW Nevada District**, comprising the following Nevada Counties: Carson City, Churchill, Douglas. Humboldt, Lyon, Mineral, Pershing, Storey, and Washoe. Registration is also open to students in adjacent Northern California counties and other Radio Amateurs throughout the state of Nevada.

The course employs a combination of on-line independent, self-paced study (using the Canvas on-line learning platform) and weekly video discussion/question & answer sessions on Saturday mornings, Sept 4 through Nov 20, 0900 - 1000 hours Pacific Time (using the Zoom teleconferencing application).

An Internet or cellphone connection capable of supporting Zoom conferences will be required to attend these sessions live. All sessions will be recorded for later retrieval and playback to accommodate students who cannot attend a live session. Zoom clients run on most operating systems, including computers, cellphones, and tablets.

Students need to complete the course prerequisites before taking the EC-001 course final exam. These are two no-cost on-line Federal Emergency Management Agency (FEMA) independent study courses **IS-100.c**, Introduction to the Incident Command System, and **IS-700.b**, An Introduction to the National Incident Management System. FEMA Course completion certificates or course transcripts are required to take the final exam which will be conducted by ARRL Volunteer Examiners or on-line through the ARRL website.

WCARES will be tracking hours spent on-line and in off-line study for this course. This includes study time for the aforementioned prerequisite FEMA courses. Instructions for reporting hours will be discussed at the first Zoom session Sept 4.

EC-001 class completion is required for Level 2 certification in the ARRL ARES Standard Task Book, and Full Membership Level in the WCARES organization. If you took the class some years ago, you might consider retaking it to update and brush up your skills.
To register for the Fall 2021 WCARES EC-001 course, send emails to both:

Bob Miller WA6MTY
Washoe County ARES Emergency Coordinator
wa6mty@wcares.us
Tel (775) 843-5952

David Richards AF6MN
Lead Instructor
david@drdrr.net
Tel (650) 245-5558

* *

MARK YOUR CALENDAR 9/15-9/19 2021 IS THE SCHEDULE FOR THE RENO AIR RACES unless it is cancelled because of COVID (or smoke!).

We help with security, checking passes of people going to the PITS which where the race teams prepare the planes for their races or checking passes of people going into the grandstands.

If you want FREE access to the Air Races, I have two options:
For full access to everywhere the public goes including free parking, help with 16 hours volunteer time and you will be able to **attend any time during the week.** Many times, we help with security the entire week so you can spread the 16 hours over several days.

The second option, for people that cannot put in 16 hours of volunteer time, volunteer four hours, you can get a **one-day pass**, full access to the race including parking.

Anyone over 18 can help, you do not have to be a Ham or a member of ARES.

Just contact me Bob WA6MTY and I will keep you up to date.
Washoe County ARES Emergency Coordinator, Bob Miller, WA6MTY **WA6MTY@wcares.us** **Wa6mty@GBIS.COM** Tel (775) 843-5952

Board of Directors Meeting Minutes

July 14, 2021 - 6:00PM

At Chin Chin plus Zoom

1. Call to order and roll call at 6:00 PM

Board of Directors:

Anthony Marcin, W7XM	P	Barry Bettman, K6ST	P	John Miller, N7JDM	P
Bill Jones, AE7OX	P	John Byerly, N7ROJ	P	Wes Vick, KG7QXE	P
Jim Shepherd, W6US	P	Doug Edmondo, W7DBE	P		

2. Approval of Minutes - Discussion/Action

AJuly 2021 meeting minutes were approved

3. Approval of Agenda - Discussion/Action

Agenda was approved

4. Reports

A. President's Report; Ordered two new repeaters; there may be one in stock and lead times are quoted as 8 weeks. Dave Metz is donating a machine that will be a new IRLP link on Grand Sierra.

B. Secretary Report – 462 Members, getting ready to send out information for upcoming board elections, and working on the HAM Swap sign-ups.

C. Treasurer – Jule 2021 End of Month, Operating: $10,543, Savings: $11,518, Self Insurance: $11,309, Paypal: $2,587, Convention: $4,295. Net Monthly $918 net YTD: $5,679. 45 membership. Donations (YTD): Amazon $123, PayPal $62, and Members $603.

Noted that Paypal is changing their terms and rate structure will affect costs slightly.

A

D. Technical Team – Pat

See President's report. Barry noted an issue with the Davidson DMR repeater that John B. Will check on post meeting. No issue noted with Mount Rose after a site visit; Some QRM on the noon net – likely a local noise source.

E. Control Operators / Trustee
None

F. Events
1. Ham Radio Swap on September 4th 6am to Noon at Cabellas on the East Parking lot. Looking forward to an in person event.
2. NVQSO Party is coming up. Jim is ready to go with rules etc, now working on Email and website clean-up. The board motioned and approved payment for the award plaques that Jim makes for the top scoring stations.
3. SNARS will have a booth and is supporting the open house at Chameleon Antenna and HAM&HI on September 11th. Board subsequently motioned and approved providing sanitary facilities for attendees.

G. Education & Youth Activities
October, Jamboree on the Air, 3rd weekend in October – Barry is reaching out to the local scout troops.

H. Noon Net - Noon Net Manager; Still need some additional Net Controll operators for back up/vacations etc.

5. Old Business

In person monthly meetings – Still looking for a venue that will host us. Board had informal discussions regarding other options/formats.

6. New Business

Discussed renewal of website domains including NVCON and other sites the club owns.

7. Board member and Public Comments

A. Barry – Ham Swap – get the word out.
B. Tony – Not much – Helping with the HAM Swap
C. Bill – Nothing to add but did discuss raffle prizes for the 4th.
D. Jim – Commented on possible remaining HT in the shed for a raffle.
E. John M. - Happy to participate at the Chameleon open house
F. Wes – Commented that perhaps we don't need to have a meeting every month.
G. John B. - Like the zoom meeting format Barry came up with for the August meeting.
H. Doug – Public had no comments.

8. **Adjournment - Action**

A. Next Meeting: September 8th, 2021. Location TBD
B. Meeting adjourned at 18:52